

WITROWSKI, H.; LEWANDOWSKI, A.

Cationite paper. III. Quantitative determination of alkaloids in yellow lupine.
p. 321.

CHEMIA ANALITYCZNA. (Komisja Analityczna Polskiej Akademii Nauk i Naczelnego
Organizatora Technicznego) Warszawa. Poland. Vol. 4, No. 1, 1959

Monthly list of East European Accessions (EEAI) LC, Vol. 8, No. 8, August 1959
Unclu.

MALEJKA, D.; WITKOWSKI, H.

The use of ionitized paper to determine alcaloids in tinctures.
I. Tinctura Cinchonae. Bull.Soc.amis Sc.Poznan, Ser.C no.9:27-33
1959.

(CINCHONA chem.)

LEWANDOWSKI, Anzelm; WITKOWSKI, Henryk

Use of cationite paper for estimations of atropin in plant material.
Mat chemia 4:3-10 '61.

1. Uniwersytet im. Adama Mickiewicza w Poznaniu, Katedra Chemii
Ogolnej.

LEWANDOWSKI, Anzelm; WITKOWSKI, Henryk

The use of cationite paper for the determination of atropine in plants. Mat chemia 4:3-10 '61.

1. Katedra Chemii Ogolnej, Poznan.

WITKOWSKI, I.; BALSKI, Z.

Elaboration of the foundations for the automation and regulation of sizing machines. Biuletyn Włok. p. 1.

PRZEGLAD WLOKIENNICZY. (Stowarzyszenie Inżynierow i Technikow Przemyslu Włokienniczego) Łodz, Poland. Vol. 12, no. 1, Jan. 1958.

Monthly List of East European Accessions (EEAI) LC. Vol. 8, no. 2, July 1959.

Uncl.

BATSYA, Kazimir [Bacia, K.]; VITKOVSKIY, Bronislav [Witkowski, B.];
VITKOVSKIY, Irzhi [Witkowski, I.]; SHAKHNAROVICH, M.A. [translator];
BUGLAY, B.M., red.; IZAROVA, V.G., red.izd-va; LOBANKOVA, R.Ye.,
tekhn.red.

[Manual for upholsterers] Rukovodstvo dlja oboishchikov
miagkoi mebeli. Moskva, Goslesbumizdat, 1961. 181 p.

Abridged translation from the Polish.
(Upholstery)

(MIRA 14:6)

WITKOWSKI, J.

TECHNOLOGY

PERIODICAL: BUDOWNICTWO PRZEMYSLOWE. Vol 7, no. 7, July 1958

WITKOWSKI, J. Some organizational problems of a system of cost accounting for heavy building machinery. p. 19.

Monthly List of East European Acquisitions (EEAT) LC, Vol 8, no. 4.
April 1959, Unclass

WITKOWSKI, Jan.

ZYSK, Jerzy; WITKOWSKI, Jan.; ZBIGNIEW, Kaleta.

[No translation] Acta physiol.polon 6 no.4:421-440 1955.

1. Z Wojskowego Instytutu Naukowo-Badawczego i Doswiadczenego
Medycyny Lotniczej.

(BLOOD,
alcohol, eff. of altitude in non-drinking subjects, Widmark
test (Pol))

(ALCOHOLS, in blood,
eff. of altitude in non-drinking subjects, Widmark test (Pol))

(ALTITUDE, effects,
on blood alcohol in non-drinking subjects, Widmark test (Pol))

WITKOWSKI, Jerzy, mgr., inz.

Standardization in the furniture industry. Normalizacja 29 no.11/12:
535-536 '61.

1. Kierownik Branżowego Centralnego Ośrodka Normalizacji Zjednoczenia
Przemysłu Meblarskiego.

(Poland-Furniture)

WITKOWSKI, JOZEF.

WITKOWSKI, JOZEF. The Structure of the Universe. *Wszeszyiat*, 1948, p. 97-98.

WITKOWSKI, JOZEF.

WITKOWSKI, JOZEF. On a Certain Phenomenon in Connection with Total Lunar Eclipses. Poznanskie Towarzystwo przyjaciol nauk. Bulletin. Serie B: Sciences mathematiques et naturelles, 1948, no. 9, p. 147-148.

WITKOWSKI, JOZEF.

WITKOWSKI, JOZEF. Solar Corona and its Influence upon the Earth's Atmosphere.
Przeglad meteorologiczny i hydrologiczny, 1949, v. 2, p. 142-146.

WITKOWSKI, Jozef

WITKOWSKI, Jozef: "Korona Słoneczna i jej wpływ na atmosferę ziemska," (The solar corona and its influence on the earth's atmosphere), Przeglad Meteorologiczny i Hydrologiczny, Warsaw No 1-4, 1949, p 15-19.

WITKOWSKI, JOZEF.

WITKOWSKI, JOZEF. *Migration of Poles in the Light of Modern Investigations.*
Urania, 1951, no. 1/2, p. 1-4.

WITKOWSKI, JOZEF.

WITKOWSKI, JOZEF. Oppenheim's Phenomenon and its Bearing on the Origin of Comets. Poznanskie Towarzystwo przyjaciol nauk. Bulletin. Serie B: Sciences mathematiques et nautrelles, 1953, no. 12, p. 205-210.

WITKOWSKI. J.

"Copernicus' Reform". p. 70 (Nauka Polska. Vol. 1, no. 4, Oct./Dec. 1953 Warszawa.)

Vol. 3, no. 6

SO: Monthly List of East European Accessions./Library of Congress, June 1954, Uncr.

POL/26-59-1-1/20

3(7)

AUTHOR:

Witkowski, Józef, Professor, Doctor

TITLE:

Latitude Station of the Polish Academy of Sciences at
Borowiec

PERIODICAL:

Acta geophysica polonica, 1959, Nr 1, pp 3-8 (Poland)

ABSTRACT:

The author describes the situation, the technical equipment and the activities of the newly built station. The geographical coordinates of the Latitude Station at Borowiec are $1^{\text{h}} 02^{\text{m}} 18.545^{\text{s}}$, $+ 52^{\circ} 16' 38''$, and the elevation is 80 m above sea level. The station lies on the same parallel of latitude as the Station of Irkutsk. The station consists of the office building, a dwelling house, a farm building, two observing houses for zenith-telescopes and two others for transit-instruments, a 10 m deep underground room for clocks and horizontal pendulums. The observing houses are equipped with one Zeiss zenith-telescope of aperture 135 mm and focal length 1750 mm, and with one zenith-telescope built in the workshops of the Poznań University Observatory, aperture 110 mm and the focal length 2020 mm. In the other two observing houses

Card 1/3

POL/26-59-1-1/20

Latitude Station of the Polish Academy of Sciences at Borowiec

are two modern Zeiss transit-instruments of 100 mm aperture and 1000 mm focal distance. The time service of the station is equipped with three crystal clocks and one pendulum clock of the Shortt type delivered by the Synchronome Co Ltd, London. The crystal clocks were designed by the consulting electrical engineer of the Station Mr. S. Cierniewski. The two horizontal pendulums are double pendulums of the Lettau type and were also designed in the workshops of the Poznan Observatory. The gravity variations are registered with an Askania GS-11 gravity meter. The station takes part in the activities of IGY as concerns latitude, longitude and earth tides. The latitude observations began in August 1957, the time service and longitude observations were started in October 1957, the observations of earth tides began at the end of September 1958. The number of Talcott star-pairs observed by the station was 1860 up to October 1958. 2590 star transits have been recorded with the two Zeiss instruments. The staff of the station also takes part in observations of "sputniks". ✓

Card 2/3

Latitude Station of the Polish Academy of Sciences at Borowiec POL/26-59-1-1/20

The scientific staff of the station at present consist of: Director: Professor Doctor J. Witkowski; Head of the time service: Docent, Doctor F. Koebcke, Associates: Doctor S. Andruszewski, Master of Sciences J. Dobrzycki (Latitude), Doctor H. Hurnik. Assistants: Master of Sciences M. Dobrzycka (Latitude, gravity meter), J. Domiński (Time service), J. Moczko (Time service), S. Nowak (Latitude, pendulums). The decision of building this latitude station was taken at the Latitude Conference held in Moscow in November 1949 (proposal of Professor A. V. Orlov, Head of the Latitude Service of the USSR). There are 18 photographs, 3 graphs and 1 diagram.

ASSOCIATION: Stacja szerokościowa Polskiej akademii nauk w Borowcu (Latitude Station of the Polish Academy of Sciences at Borowiec)

SUBMITTED: October 3, 1958

Card 3/3

✓

P/002/60/000/003/001/003
D001/D101

AUTHOR: Witkowski, Józef

TITLE: Earth crust tidal motions and their investigations at
the PAS astronomical latitudinal station in Borowiec
near Poznań

PERIODICAL: Nauka Polska, no. 3, 1960, 33-43

TEXT: In this article the author outlines the scope of investigations carried out at the Astronomiczna Stacja Szerokościowa Polskiej Akademii Nauk (Polish Academy of Sciences, Astronomical Latitudinal Station) in Borowiec organized in 1957. Coordinates of this station are: $52^{\circ}16'38''N-10^{\circ}08'18.4''E$ [Abstracter's note: There is an obvious mistake in the longitude coordinate. It should read $17^{\circ}08'18.4''$]. It is one of 33 stations of this type in existence and recorded in an official index issued by the Międzynarodowa Asocjacja Geodezji (International Geodesy Association) as a gravimetric and pendulum station. (There is also another astronomical observation station in Józefosław near Warsaw, a branch of the Polytechnic Institute in Józefosław.)

Card 1/4

Earth crust tidal motions ...

P/002/60/000/003/001/003
D001/D101

Warsaw, but it is not mentioned in the official register). In the introductory part of this article, the author discusses problems connected with earth-rotation and the phenomenon of earth crust tidal motions. The latter, a new branch of geophysics, was developed in western countries in the second part of the XIX century; in Poland investigations in this field commenced only very recently. Best known and observed symptoms of earth crust tidal motions are: (1) deviation of the plummet line in relation to the earth's crust; (2) deviation of the plummet line in relation to the world axis. [Abstracter's note: An obvious misprint; it should read "earth's axis"]; (3) gravitation forces intensity fluctuations; (4) the decrease of the oceans' tidal amplitude. Less precisely elucidated are the earth crust elastic tension forces and the tides in underground water reservoirs. Further, the author points out the importance of an accurate knowledge of gravitation forces fluctuations from a practical point of view i. e., for gravimetrical prospecting. The station in Borowiec is equipped with water-tight clock- and pendula cellars, two pavillions with transit instruments and two pavillions with zenithal telescopes. At the astronomical section,

Card 24

P/002/60/000/003/001/003

D001/D101

Earth crust tidal motions...

time and latitudinal service is maintained and at the geophysics section observations of gravitation force fluctuations and plummet line deviation at right angle directions are carried out. Gravitation forces fluctuation is estimated by the Askania GS 11 No 110 recording gravimeter, sensitive to $40 \mu\text{gal}/\text{cm}$, lent by Professor T. Olczak, director of the Instytut Geofizyki i Geodezji PAN (PAS Geophysics and Geodesy Institute). The plummet line inclination is estimated by means of two horizontal pendula of the Lettau-type placed in a 10 m deep cellar. Registration, which commenced in 1958, is carried out continuously in 30 day cycles. Following the recommendations of the earth crust tidal motion committee (Doodson, Lecolazet Pertsev), the recorded graphs are evaluated by a harmonic analysis and sent to the International Geophysical Year Center. Results of 8 months investigations were presented at the Trieste Symposium in 1959. From compiled gravimetric investigation results, a suggestion emerges that a 2 - 3^o phase shift of earth crust tidal motion takes place. The scientist Paryiskyi expressed the opinion that the

Card 3/4

Earth crust tidal motions...

P/002/60/000/003/001/003
D001/D101

earth's rotation retardation of 0.001 sec/100 years is to some extent influenced by the earth crust tidal motion.

ASSOCIATION: Polska Akademia Nauk (Polish Academy of Sciences).
Card 4/4

WITKOWSKI, Jozef

Earth tides and their observation at the latitude station of the
Polish Academy of Sciences. Review Pol Academy 5 no.1:53-62 Ja-Mr
'60. (EEAI 10:3)
(Polish Academy of Sciences) (Earth tides)

WITKOWSKI, Jozef

Influxes of the earth crust and their research at the Astronomical Latitude Station of the Polish Academy of Sciences in Borowiec near Poznan. Nauka polska 8 no.3:33-43 Jl-S '60.

1. Czlonek korrespondent Polskiej Akademii Nauk, Warszawa.

WITKOWSKI, J.; OLPINSKA-WARZECHOWA, K.

A list of scientific works of prof. Wladyslaw Smosarski.
Przegl geofiz 6 no.3:213-216 '61.

P/002/63/000/001/001/001

AUTHOR: Witkowski, JozefTITLE: The Polish Astronomical Research Office.

PERIODICAL: Nauka Polska, no. 1 (43), 1963, 45-56.

TEXT: Until its hoped-for COA Centralne Obserwatorium Astronomiczne, Central Astronomical Observatory becomes a reality, PAN Polska Akademia Nauk, Polish Academy of Sciences has created, in 1957 Zaklad Astronomii (Astronomical Research Office) (FROI. Jozef WITKOWSKI, Director). The office comprises the existing Astrophysics Laboratory I in Torun, Astrophysics Laboratory II in Warsaw, as well as the Laboratory of Astrometry and Celestial Mechanics with its ASS Astronomiczna Stacja Szerokości, Astronomical Latitudinal Station in Borowiec (referred to as the ASS throughout the article). Its tasks are to pursue the realization of the COA and to direct the research of its institutions in the area of astrophysics, in the investigation of the physical state and chemical composition of the stars and interstellar matter in our and other galaxies, from the standpoint of evolution; and in the area of astrometry and celestial mechanics, in investigating the earth's rotational motion, cataloguing the faint stars, mechanics of the solar system, and other investigations requiring special care.

Card 1 of 3

P/002/63/000/001/001/001

The Polish Astronomical

From 1957 to 1961 the office managed to acquire from Zeiss Schmidt 60/90 cm projection telescope (placed at the Observatory in Piwnice until COA is ready); a zenith telescope, two Lettau pendulums, and three quartz clocks (for ASS); a 2-m diameter mobile parabolic telescope, 127-Mcs and 32-Mcs interferometers and a logarithmic-periodic interferometer, all of own special design (for Lab. I); and a 35-cm reflector and photoelectric photometer (for Lab. II).

In the Astrophysics Laboratory I (director: Prof. W. Iwanowska) research is being carried out in spectroscopy and stellar and radio astronomy on stellar populations, stars' magnetic fields, physics of comets, and radiowave radiation of the sun, as well as organized fundamental photometric determinations (Krakow).

The Astrophysics Laboratory II (director: Prof. W. Zonn) has been concentrating primarily on complex studies of interstellar medium (polarization, absorption, magnetic fields in interstellar space), with emphasis on the observed and theoretical problem of interstellar polarization of the stars' light. Other studies here cover gases in interstellar space, measurements of brightness of some stars, and, together with the Zaklad Geofizyki (Geophysics Research Office) of PAN, studies on the diffusion of light (sun) through diffusing media (clouds).

Card 2 of 3

P/002/63/000/001/001/001

The Polish Astronomical

The Laboratory of Astrometry and Celestial Mechanics with its ASS (director: Prof. J. Witkowski) carries out investigations on the location of the earth's rotational axis; on the motion, period, and variability of the earth's spin; and on the problem of the earth's crust flows under the gravitational effect of the sun and the moon. Vertical component measurements commenced in 1958 are submitted to the Moscow and International Data Centers.

The Astronomy Research Office is responsible for the arrangement of cooperative national projects and the extensive participation of Polish astronomy on the international level, as well as for the many publications of its workers.

ASSOCIATION: Director, Zaklad Astronomii (Astronomy Research Office) and of Pracownia Astrometrii i Mechaniki Nieba (Laboratory of Astrometry and Celestial Mechanics), including the Astronomiczna Stacja Szerokościowa (Astronomical Latitude Station) in Borowiec. Editor: Acta Astronomica.

Card 3 of 3

WITKOWSKI, Jozef, Professor

Work carried out by the Research Center of Astronomy. Review
Pol Academy 8 no.2:53-57 Ap-Je '63.

1. Corresponding member, Polish Academy of Sciences, Head, Research
Center of Astronomy, Poznan, Sloneczna 36.

WITKOWSKI, Jozef, prof., (Poznan, ul. Sloneczna 36)

Astronomical Laboratory. Nauka polska 11 no.1:45-56 Ja-F
'63.

1. Czlonek korespondent Polskiej Akademii Nauk, Kierownik Zakladu
Astronomii Polskiej Akademii Nauk, Warszawa, Aleje Ujazdowskie 4.

WITKOWSKI, J.

Chair of Astronomy and the Astronomical Observatory of the Poznan University in the years 1945-1960. Postepy astronom 11 no.2:169-178 '63.

WITKOWSKI, J. (Nowy Targ)

On a characterization of the Euclidean sphere. *Annales Pol. math.* 13 no.2:121-127 '63.

WITKOWSKI, J.

Address held at the celebration of Professor Jelicjan Kepinski's
50th anniversary of scientific activities. Postepy astronom 12
no.2:141-147 '64.

CATEGORY : Cultivated Plants. Fodder Grasses and Roots.

ADS. JOUR : Act. Zichr.-Bioligra, No. 5, 1959, No. 20 580

AUTHOR : Witkowski, Karol Janusz

INST. : Inst. of Fertilizers and Agric.

TITLE : Study of the Possibilities of Using Rape as Roughage and for Seeds.

ORIG. PUB.: Wydawn. własne. Inst. uprawy nawozenia i glebozmawstwa, 1957, No. 61, 29-41

ABSTRACT : At the Institute of Fertilizers and Agriculture in 1943-1944 and then in 1952-1955 at experimental fields in Celicin and Pawlowic in Poland, the possibility of using one single winter rape planting for roughage and seeds was studied. It was established that cutting the green mass of the rape produces considerable weakening of plant viability principally through the incidence of disease. The seed output was cut by 24-39%, the absolute weight:

CARD:

1/2

POLAND / Cultivated Plants. Commercial, Oleaceous,
Sugar Bearing.

M-4

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 6358
Author : Witkowski, Karol Janush; Hoffmannova, Anna
Inst : Not given
Title : Comparative Study of 4 Winter Rape Varieties
with Splitting and Non-Splitting Legumes Under
Various Ecological and Geographical Conditions
Depending on the Time of Crop Harvesting
Orig Pub : Wydawn wlasne, Inst. uprawy, nawozenia i
gleboznawstwa, 1957, No 61, 86-94
Abstract : It was found during the field experiments,
which were carried out at agricultural experi-
mental stations, situated under various soil-
climatic conditions in 1952-1953, that when
the crop is harvested during the period of

Card 1/2

POLAND / Cultivated Plants. Commercial, Oleaceous,
Sugar Bearing. M-4

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 6358

overripening the yield diminishes due to
the dropping of seeds. Non-splitting
Gurchanskiy and Kastor varieties did not show
a higher resistance against splitting of
fruit in comparison with splitting varieties
(Slenskiy and Sobutkovskiy). -- A. M. Smirnov

Card 2/2

103

POLAND / Cultivated Plants. Technical.

M-5

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 6360

Author : Witkowski, Karol Janusz

Inst : Not given

Title : Time of Summer Rape Sowing

Orig Pub : Wydawn. własne, Inst. uprawy, nawozenia i gleboznawstwa, 1957, No 61, 102-108

Abstract : To determine the optimal time of sowing 29 field experiments were carried out in various soil-climatic zones of Poland in 1946-1953. The highest yields were obtained with sowings which took place during the period between April 5th and May 5th. A considerable decrease of yield was observed in the case of later sowings. The conclusion is drawn that the

Card 1/2

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 6360

WITKOWSKI, Ryszard (eng.)

Witkowski, Ryszard (Eng.): "Radzieckie Smiglowce," (Soviet Helicopters), Skrzydla
Polaka, no date of publication, p. 5.

WITKOWSKI, R.

"The passenger must be seated comfortably." p. 24
(Skrzydla I Motor, Vol 8 No 2 Jan 53 Warszawa)

SO: Monthly List of East European Accessions, Vol 2 No 9 Library of Congress Sept 53 Unclassified

WITKOWSKI, R.

Position lights of airships. p. 34. (SKRZYDLATA POLSKA, Vol. 10, No. 22, May 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Unc1.

WITKOWSKI, R.

"Atomic Energy." (To be Contd.) P. 520. (SKRZYDŁATA POLSKA, Vol. 10, No. 33, Aug. 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 1, Jan. 1955 Uncl.

WITKOWSKI, R.

"Atomic Energy. 2." (To be Contd.) P. 542. (SKRZYDŁA POLSKA, Vol. 10, No. 34, Aug. 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 1, Jan. 1955 Uncl.

WITKOWSKI, R.

"Atomic Energy. 3." (To be Contd) P. 551. (SKRZYDŁATA POLSKA, Vol. 10, No. 35, Aug. 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 1, Jan. 1955 Uncl.

WITKOWSKI, R.

"Atomic Energy." 4. (To be Contd.) P. 564. (SKRZYDŁATA POLSKA, Vol. 10, No. 36, Sept. 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 1, Jan. 1955 Uncl.

WITKOWSKI, R.

"Atomic Energy. 5." (To be Contd.) P. 580. (SKRZYDŁA POLSKA, Vol. 10, No. 37, Sept. 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 1, Jan. 1955 Uncl.

WITKOWSKI, R.

"Atomic Energy. 6." (Conclusion) P. 596, (SKRZYDŁATA POLSKA, Vol. 10, No. 38, Sept. 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 1, Jan. 1955 Uncl.

WITKOWSKI, R.

To Kryniczka in a helicopter.

P. 6. (Skrzylata Polska, Vol. 13, no. 43, Oct. 1957, Warszawa, Poland)

MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC. Vol. 7, no. 2,
FEBRUARY 1958

1(3)

PHASE I BOOK EXPLOITATION

for
SEV/2897

Witkowski, Ryszard, Engineer, Janusz Wojciechowski, Engineer, and Paweł Elsztein

Śmigłowce (Helicopters) Warsaw, Wyd-wa komunikacyjne, 1958. 320 p. 3,140 copies printed.

Ed.: Michał Gosczyński; Tech. Ed.: Alfred Malicki.

PURPOSE: This book is intended for the general reader interested in developments in aviation.

COVERAGE: This book describes the status of helicopter development up to 1957. Design, production, and uses of helicopters as well as their special flight characteristics are discussed. Special attention is given to the description of Polish helicopters. Names of those who have contributed to the development of Polish helicopters are mentioned. Future prospects in the industry are touched upon. The book contains the technical specifications and photos of 44 of the world's outstanding helicopters. No references are given.

TABLE OF CONTENTS:

Foreword

5

Card 1/3

Helicopters	POL
	sov/2897
Ch. I. Interesting Dates in Helicopter Development	7
Ch. II. Helicopters in Poland	13
Ch. III. Helicopters in the National Economy	32
Ch. IV. Helicopters in the Service of Science and Engineering	53
Ch. V. Sport Helicopter	74
Ch. VI. Transport Helicopter	79
Ch. VII. Ports for Helicopters	101
Ch. VIII. Helicopters in Military Service	120
Ch. IX. Construction of Helicopters	136
Ch. X. Flying Helicopters	195
Card 2/3	

Helicopters

pol

807/2897

Ch. XI. Flight Training for Helicopters

227

Ch. XII. The Future of Helicopters

247

Ch. XIII. Review of the Most Interesting Designs of Helicopters

258

AVAILABLE: Library of Congress

Card 3/3

IS/OS
1/29/60

P/532/62/000/017/002/004
D237/D308

AUTHOR: Witkowski, Ryszard, Engineer

TITLE: A general method of determining the basic performance of a helicopter

SOURCE: Warsaw. Instytut Lotnictwa. Prace, no. 17, 1962,
8-21

TEXT: The most important parameters of the performance of a helicopter are: a) the ceiling, b) the hovering ceiling, c) the hovering ceiling with ground effect, d) vertical rate of climbing, e) vertical rate of climbing with forward speed. The author presents his semi-empirical method for determining the above parameters. Theoretical and empirical formulas used in the investigation of the ground-effect lead to an expression for the ratio of lifts (with and without ground-effect) in terms of dimensionless ceilings and forward velocities, and the final formula includes some constructional parameters, such as angular velocity of the rotor. The curves obtained from this formula can serve as a basis for plotting the data

Card 1/2

P/532/62/000/017/002/004
D237/D308

A general method ...

during flight, and of two methods used for obtaining these data, i.e. method of constant weight and method of constant power, the latter is used. The procedure for obtaining initial parametric relationships is illustrated and is followed by the derivation of formulas for b), d) and e). Numerical examples are given. Finally, the author discusses the influence of the ambient temperature on the performance of a helicopter and considers tropical conditions in a numerical example. All relationships are derived for the standard atmospheric sea-level conditions, i.e. $h_0 = 0$, $P_0 = 760$ mm Hg, $T_0 = 288^{\circ}\text{K}$. There are 16 figures and 10 tables.

SUBMITTED: May, 1962

Card 2/2

WITKOWSKI, Ryszard, mgr inz.

Length of the safe start of a helicopter. Techn lotn
19 no.5:113-119 My '64.

WITKOWSKI, Rafal, kapitan marynarki, mgr.

U.S. Naval Institute Proceedings - 1961. Przegl morski
15 no.4:68-78 Ap '62.

WITKOWSKI, S.

WIECKOWSKI, Wladyslaw; WITKOWSKI, Slawomir

Chemical methods of analysis of nucleic acids. Postepy
biochem. 2 no.1:91-105 1956.

l. Zaklad Chemii Fizjologicznej Akademii Medycznej w Lodzi

Kierownik: prof. dr. B. Filipowicz.

(NUCLEIC ACIDS, determination,
analytic methods, review (Pol))

FILIPOWICZ, Bronislaw; FILEK, Kazimierz; WITKOWSKI, Slawomir; GOLEWSKI,
Stanislaw

Nucleic acids in the blood. I. Content of nucleic acids in human
blood serum. Polski tygod.lek. 15 no,15:537-538 11 Ap '60.
(NUCLEIC ACIDS blood)

WITKOWSKI, Slawomir; WITKOWSKA, Zofia; FILIPOWICZOWA, Janina

A micromethod for the determination of blood pyruvic acid. Polski
tygod. lek. 16 no.22:828-830 29 My '61.

1. Z Katedry Chemii Fizjologicznej A.M. w Lodzi; kierownik: prof.
dr B. Filipowicz i z Katedry Chemii Ogolnej A.M. w Lodzi; kierownik:
z-ca prof. mgr J. Skarzynski.

(PYRUVATES blood)

CIBOROWSKI, Janusz; WITKOWSKI, Stanislaw

Studies on the phenomenon of hanging of granular loose chemical products. Przem chem 41 no.2:91-95 F '62.

1. Zaklad Inżynierii Chemicznej, Politechnika, Warszawa

WITKOWSKI, Stanislaw, A., Mgr.inz.

The weight and load capacity of a passenger automobile. Techn
motor 11 no.11:361-370 N '61.

WITOSZYNSKI, Stanislaw, mgr inż.

Remarks on colors of automobiles. Tech motor 13 no. 98307-
310 S'63.

WITKOWSKI, Slawomir

Influence of diphtheria toxin on the phosphorylation of
thiamine. Arch. immun. ther. exp. 12 no.1:1-7 '64

1. Department of General and Physiological Chemistry,
School of Medicine, Lodz.

P.T.A. WITKOWSKI, S.

Mech. & Elec. Engineering

677

Witkowski S. Some Possibilities of Improving Aircraft Piston Engines

"Niekłone możliwości ulepszeń lotniczych silników tłokowych"

Technika Lotnicza, No. 4, 1950, pp. 138-149, 8 figs.

Discussion of special problems concerning aircraft piston engines (temperature distribution, vibration of the cylinder head, superfluous of valves and valve actuating mechanisms from the thermodynamic point of view etc.). Discussion of problems the solution of which, in the opinion of the author, shows possibilities of a 100% performance increase in the piston engines reviewed. Discussion of fuel and water injection and ignition. The author's suggestions are: a) reduction of the dimensions of the cylinder head (reduction of the aerodynamic resistance by the introduction of Mertza (1942) valveless mechanism; b) increase of the relative speed of radial piston engines, which may be achieved by a partial load reduction of the main bearings; c) special air cooling of the piston from the inside of the crankcase; d) introduction of injection of a special ignition liquid into the combustion chamber to replace partially electric ignition.

WITKOWSKI

3

USSR

2426. PROBLEM OF HIGHER SILANES AS AIRCRAFT FUELS. Witkowski, B.
(Tekn. Loin., 1953, vol. 8, (2), 36-40; abstr. in Index aero., Nov. 1954, vol.
10, 128, 129). The author considers the main properties of silicon hydrides
of Si_nH_{2n+2} type (the so-called silanes) with a view to their use as fuels
for aircraft engines, especially turbines. Attention is paid to the
calculation of the heat of combustion of silanes, for which, with the
exception of monosilane, experimental data are lacking.

RT
RT

WITKOWSKI, S.

"Discussion of the Word Moment." P. 222. (WIADOMOSCI, Vol. 22, No. 4, Apr. 1954. Warszawa, Poland)

SO; Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 1, Jan. 1955 Uncl.

WITLOWSKI, S.; CIBOROWSKI, J.

Concerning the drying of sawdust in a fluidic phase. p. 102.

PRZEMYSŁ DRZEWNY. Centraine Zarazady Przemysłów: Drewnego, Makiarskiego, i Lesnego i Stowarzyszenie Inżynierow i Technikow Lesnictwa i Drzewnictwa. Warszawa, Poland, Vol. 9, No. 4, Apr. 1958.

Monthly List of East European Accession (EEAI), I.C, Vol. 8, No. 9, September, 1959.
Uncl.

CIBOROWSKI, Janusz; WITKOWSKI, Stanislaw

Studies on the phenomena of the hanging of granular beds.
Przem chem 41 no.2:91-95 F '62.

1. Zaklad Inżynierii Chemicznej, Politechnika, Warszawa.

WITKOWSKI, Stanislaw

Fluidizing drying chambers. Przem drzewny 13, no.4:28-31 Ap '62.

L 12290-63

EPR/EWP(J)/EPF(C)/BDS Ps-L/Pc-L/
P1-4 RM/WW

S/081/63/000/005/047/075

AUTHOR:

Witkowski, T.

TITLE:

Production of aluminum n-propylate for organic syntheses, especially
for synthesis of aluminum salts of amino acidsPERIODICAL: Referativnyy zhurnal, Khimiya, no. 5, 1963, 422, abstract 5N63 II
(Spodziewnia Pracy Farmaceutyczno Chemiczna "Ziololek", Polish
patent 45729, 9.03.62)

TEXT: Ten g of metallic aluminum and some solution of $(C_3H_7O)_3Al$ (reaction catalyst) are added to 100 g of anhydrous C_3H_7OH and the mixture is heated to boiling. After beginning of an intense separation of H_2 the heating is discontinued. In the case of an extremely violent reaction the flask is cooled with water. After dissolution of all the Al, the excess C_3H_7 is distilled off. Eighty g of 99% C_2H_5OH is added to the residue and the mixture boiled for 15 minutes. The mixture, together with the residue of $Al(OH)_3$, is poured into a vessel for decanting, covered and left to stand for 48 hours. One hundred forty g of the clear colorless liquid, containing 0.065 g of Al in 1 g of solution is poured off. One hundred g of this liquid is added drop by drop into an agitated

Card 1/2

L 12290-63
Production of aluminum n-propylate

O
S/081/63/000/005/047/075

solution of 18 g of $\text{H}_2\text{NCH}_2\text{COOH}$ in 38 ml of water (precipitation occurs). The mass is agitated for another 30 minutes, with gradual heating. After 24 hours, the residue is filtered out and rinsed with water. ~30 g (93.7%) $\text{H}_2\text{NCH}_2\text{COOAl(OH)}_2$ will be obtained. Z. Rachinskiy.

[Abstractor's note: Complete translation]

Card 2/2

P O L.

603.22(438)

3170
Wojciech P., Witkowski T. A Tentative Characterization of Polish
Wines."Podba charakterystyki win polskich", Przemysł Rolny i Spożywczy,
No. 13, 1953, pp. 410-422, 14 tabs.

An attempt was made, on the basis of 1000 analyses, to delineate the characteristics of Polish fruit wines. The following ranges of sweetness of both white and red wines were examined: — dry, semi-dry, semi-sweet and sweet, and the following conclusions were arrived at:
— 1) the Polish wine industry is completely effective in protecting wines from turning to vinegar; 2) the alcohol content of wines achieves a considerable degree of uniformity and is always in excess of the minimum established by law; 3) the sugar content, especially in dry, semi-dry and semi-sweet wines, generally exceeds the minimum regulation content; 4) the extract (not counting sugar) is regularly considerably in excess of the legal requirement; 5) the total acidity of red wines generally remains within the prescribed limits; in white wines, however, it does not always conform; 6) Polish wines are immature and insufficiently aged but possess, nevertheless, a satisfactory steadily improving blending of flavours.

* Three Various Agricultural Crops.

Card 1/1

WITKOWSKI, T.; DZIUBE, S.

Observations on quantitative changes in two mesofauna components (Nemato-
toda, Acarina) in cultivated soil. p. 163

EKOLOGI POLSKA. SERIA B. (Polska Akademia Nauk. Komitet Ekologiczny
Warszawa, Poland. Vol. 5, no. 2, 1959

Monthly list of East European Accession (EEAI) LC Vol. 9, no. 1, Jan. 1960

Uncl.

WITKOWSKI, Tadeusz

Vertical distribution of nematodes in the soil of three different
observed field cultures. Nauki matem przyrod Torun no.3:61-101 '58.

1. Zaklad Ochrony Przyrody i Ekologii, Uniwersytet im. M.
Kopernika, Torun.

WITKOWSKI, W.

"Oilseed plant sawfly." (p. 105) NOWE ROLNICTWO (Panstwowe Wydawnictwo Rolnicze i Lesne) Warszawa, Vol 2, No 11, Nov. 1953.

SO: East European Accessions List, Vol 3, No 8, Aug 1954

SZCZYPINSKI, W.; WITKOWSKI, W.; SLABECKA, D.

Comparison of the effectiveness of new insecticides on the rape
beetle (*Meligethes aeneus* F.). Rocznik nauk roln. rosl. 81 no.3:655-
669 '60. (EEAI 9:10)

(Poand--Rape (Plant))
(Insecticides)
(*Meligethes aeneus*)

SZCZYPINSKI, W.; WITKOWSKI, W.; SLABECKA, D.

Research on the dusts of azotox made on various carriers. Rocznik nauk roln. rosl 82 no.1:219-249 '60. (EEAI 10:7)
(Trichlorobischlorophenylethane)
(Meligethes aeneus) (Poland--Plants) (Rape)

WITKOWSKI, Witold

Effect of antibacterial drugs on the level of 11-hydroxysteroids
in the blood serum in pulmonary tuberculosis patients. Prelimi-
nary communication. Gruzlica 31 no.6:661-664 Je'63.

1. Klinika Ftizjatryczna AM, Poznan.

WITKOWSKI, Witold; KADLUBOWSKI, Wiktor; KARCZEWSKI, Benedykt

Studies on the chemical control of the alder tree weevil
(Cryptorrhynchus lapathi L.) Col. Curc. Prace nauk roln
i leśn 17 no.3:585-608 '65.

1. Institute of Plant Protection, Poznan, and Department of
Forest Protection of the School of Agriculture, Poznan.

WITKOWSKI, Z.

WITKOWSKI, Z. Consideration concerning W. Gallias' article "Improvement of the Water Economy in the Cigarette Tissue Department." p. 275

Vol. 12, no. 9, Sept 1956
PRZEGIAD PAPIERNICZY
TECHNOLOGY
Lodz, Poland

So: East European Accession Vol. 6, no. 2, 1957

"APPROVED FOR RELEASE: 03/20/2001

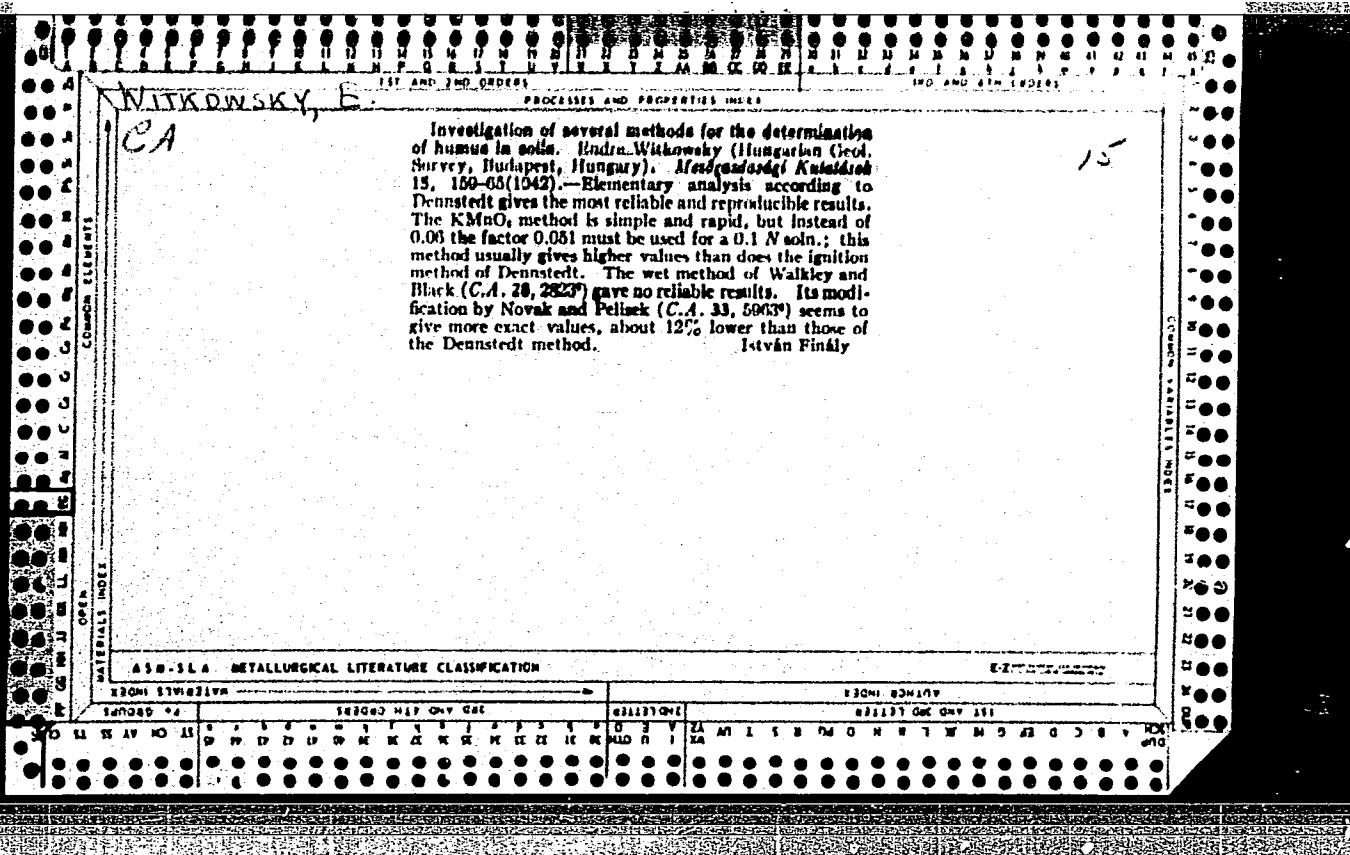
CIA-RDP86-00513R001961620017-8

APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R001961620017-8"

WITKOWSKIY, Mieczyslaw, inz.

Techniques of mechanized rough-casting of coke-ovens. Przegl
techn 81 no.22:10-11 Je '60.



WITMAN, R.; KELM, N.

Contributions to the synthesis of 1-N-butyl scopolammonium bromide
(Scobutil, Buscopan). p. 85.

REVISTA DE CHIMIE. Bucuresti, Romania. Vol. 10, no. 2, Feb. 1959.

Monthly List of East European Accessions. (EEAI), LC. Vol. 8, no. 9, Sept. 1959.
Uncl.

WITORT, A.; TRECHCINSKI, R.

"Utilizing the District Telephone Network for Radiophonic Facilities of Villages." P. 58. (WIADOMOSCI TELEKOMUNIKACYJNE, Vol. 23, No. 3, Mar. 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions. (EEAL), LC, Vol. 4,
No. 1, Jan. 1955 Uncl.

WITORT, A.

"Aerial Lines Supplying Power to Remote Radio Substations." P. 134.
"Protection of Rural Radiophonic Lines. Tr. from the Russian." P. 136.
"Wave Guides in the Technique of Superhigh Frequency. Tr. from the Russian." P. 138. (WIADOMOSCI TELEKOMUNIKACYJNE, Vol. 23, No. 6, June. 1954, Warszawa, Poland.)

SO: Monthly List of East European Accessions. (EEAL), LC, Vol. 4, No. 1, Jan. 1955 Uncl.

WITORT, A.

"Centralization of the Services of Radio Stations." P. 176. (WIADOMOSCI
TELEKOMUNIKACYJNE, Vol. 23, No. 8, Aug. 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions. (EEAL), LC, Vol. 4,
No. 1, Jan. 1955 Uncl.

WITORT, A.; WEGLEWSKI, J.

Up-to-date development of radiophony in Poland and guidelines for the period 1954-1965.
p. 194. (WIADOMOSCI TELEKOMUNIKACYJNE, Warszawa, Vol. 23, No. 9/10, Sept./Oct. 1954)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 6, June 1955, Uncl.

WITORT, A.

Laying feeders for radio networks and telephone lines on the same pole. p.36.
(WIADOMOSCI TELEKOMUNIKACYJNE, Warszawa, Vol. 24, No. 2, Feb. 1955)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 6, June 1955, Uncl.

WITORT, A.

Communications yesterday, today, and tomorrow. p. 3.

RADIOAMATOR.

Warszawa, Poland

Vol. 9, no. 1, Jan. 1959.

Monthly List of East European Acessions Index, (EEAI), LC, Vol. 8, no. 6.

June 1959

Uncl.

WITURR, A.

Low-frequency amplifier with a high power-increasing quality . p. 56

WIAŁOMOSCI TELEKOMUNIKACYJNE vol. 25, no. 3, Mar. 1956

Warszawa, Poland

so. EAST EUROPEAN ACCESSIONS LIST vol. 5, no. 10 Oct. 1956

WITORT, A.

The power of acoustical amplifiers.

P. 18 (RADIOAMATOR) (Warszawa, Poland) Vol. 7, No. 12, Dec. 1957

SO: Monthly Index of East European Accessions (EEAI) LC Vol. 7, No. 5. 1958

WITORT, Aleksander

Aleksander WITORT, "Network of Wire Diffusion Receiver Equipment," Tele-Radio,
Vol. II, No. 1, Warsaw, January 1957, pp 1-6.

JPRS/NY-L-449, 12 Nov 58, Uncl. fsg

TYNECKI, Jozef; TOMPCISKI, Czeslaw; HRUCZKOWSKI, Lech; WITORT, Malgorzata

Relationship between the total free amino acid content in the
maternal blood serum and in the cord blood in labor at term.
Pol. tyg. lek. 20 no.25:913-915 21 Je '65.

1. Z II Kliniki Poloznictwa i Chorob Kobiecyh AM w Lublinie
(Kierownik: prof. dr. med. Jozef Tyncki).

WITOPORZENC, Julian; IZDERSKI, Marian.

Case of porphyria. Polski tygod. lek. 10 no. 44:1436-1438 31 Oct 55.

1. Z II Kliniki Chorob Wewnętrznych A.M. w Łodzi; kierownik: prof.
dr. med. J. Jakubowski. Łódź, II Kl. Chor. Wewn. A.M.
(PORPHYRIA, case reports)

WITORZEC, Julian

Visceral lupus erythematosus. Polski tygod. lek. 11 no.24:1074-1077
11 June 56.

1. Z II Klin. Chor. Wewn. Akad. Med. w Lodz; kier. prof. dr nauk
med. Jerzy K. Jakubowski. II Kl. Chor. Wewn. Lodz.
(LUPUS ERYTHEMATOSUS, case reports,
visceral (Pol))

MUSIAL, Włodzimierz; KOŁODZIEJSKA, Helena; WITORZENC, Julian

A syndrome of myelosclerosis associated with leukoerythroblastic anemia. Polskie arch. med. wewn. 29 no.2:240-243 1959.

1, "Z II Kliniki Chorob Wewnętrznych A.M. w Łodzi Kierownik: prof. dr. med. J. Jakubowski. Adres: Łódź, ul. Sienkiewicza 51.

(ANEMIA, LEUKOERYTHROBLASTIC, case reports, (Pol))

KOŁODZIEJSKA, Helena; WITORZEC, Julian

Osseous changes in plasma-cell leukemia. Polskie arch. med. wewn.
29 no.2:268-271 1959.

1. Z II Kliniki Chorob Wewnętrznych A. M. w Łodzi Kierownik: prof.
dr n. med. J. Jakubowski. Adres: Łódź, ul. Kościuszki 29, m. 2.

(LEUKEMIA, pathol.

plasma-cell leukemia, bone changes (Pol))

(BONE AND BONES, pathol.

in plasma-cell leukemia (Pol))

WITORZENC, J.

Complex clinical picture of arteritis nodosa. Report of a case.
Kardiol. polska 4 no.4:321-324 '61.

1. Z II Kliniki Chorob Wewn. AM w Lodzi Kierownik: prof. dr
J. Jakubowski.
(PERIARTERITIS NODSA case reports)

WITORZENC, Julian

On diagnostic difficulties in Cushing's syndrome without manifest obesity. Pol. tyg. lek. 17 no.12:443-445 19 Mr '62.

1. Z II Kliniki Chorob Wewnętrznych AM w Łodzi; kierownik: prof. dr med. J. Jakubowski.

(CUSHING'S SYNDROME diag)

WITORZEN, Julian

23

1. "Effect of Bleeding on Atrial Fibrillation on the Course of Post-Induction Syndrome," L. V. MCGOWAN of the Higher Institute of Medicine at Sofia (Bulgaria) translated from the Russian by Madeline WILKINS (ED); pp 169-177.

2. Report on Work Started Done by the Cardiologist Center of the Krakow Municipal Specialized Hospital (Under LASKOWSKI) of the MSS (Medical Branch (Medical Cardiologist) in Krakow (Ordinators: Dr. Tadeusz LASKOWSKI) in Krakow (English summary).

3. "Use of Extracardiac in Cardiac Operations," Tadeusz POLICZ-GROMICKI of the Chest Surgery Branch (Ogrodowa) of the Krakow Medical Museum, also given as "Cardiac Operations" of the MSS in Krakow (Ordinators: Dr. Tadeusz LASKOWSKI); pp 119-121.

4. "Technical Treatment of Unobstructed Bileaflet's Mitral Valve," Tadeusz LASKOWSKI, Dr. ANDRZEJ in Krakow (Mitral Valve); pp 113-115 (English summary).

5. "Constriction and Insufficiency of Mitral Valve," Tadeusz LASKOWSKI of the Chest Surgery Branch of the MSS in Krakow; pp 123-126 (Russian summary).

6. "Impressions of a Visit to Cardiac Surgical Centers in Poland and France," Stanislaw SZYRKO of the Jagiellonian Clinic (I Klinika Chirurgiczna) of the Jagiellonian University (Szkoła Wyższa (Akademia Medyczna) in Krakow (Director: Prof. Dr. Stefan Szysko) (Breslau (Director: Prof. S. SZYRKO); pp 126-131 (Russian summary).

7. "On Unusual Appearance Anomaly of the Pulmonary Arteries," Włodzimierz WŁODKOWIC of the Jagiellonian University (II Klinika Chirurgiczna) of the Jagiellonian Clinic (I Klinika Chirurgiczna) of the Jagiellonian University (Szkoła Wyższa (Akademia Medyczna) in Krakow (Director: Prof. Dr. Stefan Szysko); pp 128-131 (Russian summary).

8. "On Unusual Case of Pulmonary Carcinoma of Bronchial Origin," Włodzimierz WŁODKOWIC and Jerzy DEMANOWSKI of the Jagiellonian University (II Klinika Chirurgiczna) of the Jagiellonian Clinic (I Klinika Chirurgiczna) of the Medical Academy in Krakow (Director: Prof. Dr. Stefan Szysko); pp 132-135 (Russian summary).